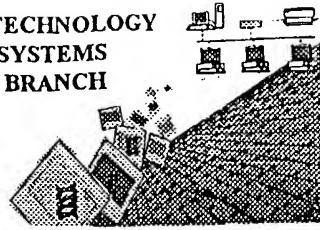


BIOTECHNOLOGY  
SYSTEMS  
BRANCH



## RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/723,365 A  
Source: IFIN  
Date Processed by STIC: 7/27/04

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.2 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<http://www.uspto.gov/ebc/efs/downloads/documents.htm>) , EFS Submission User Manual - ePAVE
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand-Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 06/05/04):  
U.S. Patent and Trademark Office, 220 20<sup>th</sup> Street S., Customer Window, Mail Stop Sequence, Crystal Plaza Two, Lobby, Room 1B03, Arlington, VA 22202

Revised 05/17/04



IFWO

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/10/723,365A

DATE: 07/27/2004  
TIME: 11:58:58

Input Set : A:\2073seq.002  
Output Set: N:\CRF4\07272004\J723365A.raw

```

4 <110> APPLICANT: van den Boom, Dirk
5      Bocker, Sebastian
7 <120> TITLE OF INVENTION: FRAGMENTATION-BASED METHODS AND SYSTEMS
8      FOR SEQUENCE VARIATION DETECTION AND DISCOVERY
11 <130> FILE REFERENCE: 24736-2073
13 <140> CURRENT APPLICATION NUMBER: 10/723,365A
14 <141> CURRENT FILING DATE: 2003-11-26
16 <150> PRIOR APPLICATION NUMBER: US 60/429,895
17 <151> PRIOR FILING DATE: 2002-11-27
19 <160> NUMBER OF SEQ ID NOS: 85
21 <170> SOFTWARE: FastSEQ for Windows Version 4.0
23 <210> SEQ ID NO: 1
24 <211> LENGTH: 7
25 <212> TYPE: PRT
26 <213> ORGANISM: Artificial Sequence
28 <220> FEATURE:
29 <223> OTHER INFORMATION: Renin cleavage site
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32 Pro Phe His Leu Leu Val Tyr
33 1          5
36 <210> SEQ ID NO: 2
37 <211> LENGTH: 5
38 <212> TYPE: PRT
39 <213> ORGANISM: Artificial Sequence
41 <220> FEATURE:
42 <223> OTHER INFORMATION: Factor Xa cleavage site
44 <220> FEATURE:
45 <221> NAME/KEY: VARIANT
46 <222> LOCATION: 5
47 <223> OTHER INFORMATION: Xaa = Any Amino Acid Except Pro or Arg
49 <400> SEQUENCE: 2
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51 1          5
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55 <211> LENGTH: 5
56 <212> TYPE: PRT
57 <213> ORGANISM: Artificial Sequence
59 <220> FEATURE:
60 <223> OTHER INFORMATION: Factor Xa cleavage site
62 <220> FEATURE:
63 <221> NAME/KEY: VARIANT
64 <222> LOCATION: 5
65 <223> OTHER INFORMATION: Xaa = Any Amino Acid Except Pro or Arg

```

(pg. 6)

Does Not Comply  
Corrected Diskette Needed  
(pg. 3) ↗

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/723,365A

DATE: 07/27/2004

TIME: 11:58:58

Input Set : A:\2073seq.002

Output Set: N:\CRF4\07272004\J723365A.raw

67 &lt;400&gt; SEQUENCE: 3

W--&gt; 68 Ile Asp Gly Arg Xaa

69 1 5

72 &lt;210&gt; SEQ ID NO: 4

73 &lt;211&gt; LENGTH: 5

74 &lt;212&gt; TYPE: PRT

75 &lt;213&gt; ORGANISM: Artificial Sequence

77 &lt;220&gt; FEATURE:

78 &lt;223&gt; OTHER INFORMATION: Factor Xa cleavage site

80 &lt;220&gt; FEATURE:

81 &lt;221&gt; NAME/KEY: VARIANT

82 &lt;222&gt; LOCATION: 5

83 &lt;223&gt; OTHER INFORMATION: Xaa = Any Amino Acid Except Pro or Arg

85 &lt;400&gt; SEQUENCE: 4

W--&gt; 86 Ala Glu Gly Arg Xaa

87 1 5

90 &lt;210&gt; SEQ ID NO: 5

91 &lt;211&gt; LENGTH: 5

92 &lt;212&gt; TYPE: PRT

93 &lt;213&gt; ORGANISM: Artificial Sequence

95 &lt;220&gt; FEATURE:

96 &lt;223&gt; OTHER INFORMATION: Collagenase cleavage site

98 &lt;220&gt; FEATURE:

99 &lt;221&gt; NAME/KEY: VARIANT

100 &lt;222&gt; LOCATION: 2, 5

101 &lt;223&gt; OTHER INFORMATION: Xaa = Any Amino Acid

103 &lt;400&gt; SEQUENCE: 5

W--&gt; 104 Pro Xaa Gly Pro Xaa

105 1 5

108 &lt;210&gt; SEQ ID NO: 6

109 &lt;211&gt; LENGTH: 49

110 &lt;212&gt; TYPE: DNA

111 &lt;213&gt; ORGANISM: Artificial Sequence

113 &lt;220&gt; FEATURE:

114 &lt;223&gt; OTHER INFORMATION: Forward primer for base-specific cleavage

116 &lt;400&gt; SEQUENCE: 6

117 cagtaatacg actcactata gggagaaggc tccccagcaa gacggactt 49

119 &lt;210&gt; SEQ ID NO: 7

120 &lt;211&gt; LENGTH: 28

121 &lt;212&gt; TYPE: DNA

122 &lt;213&gt; ORGANISM: Artificial Sequence

124 &lt;220&gt; FEATURE:

125 &lt;223&gt; OTHER INFORMATION: Reverse primer for base-specific cleavage

127 &lt;400&gt; SEQUENCE: 7

128 aggaagagag cgccctcgca aagtacac 28

130 &lt;210&gt; SEQ ID NO: 8

131 &lt;211&gt; LENGTH: 340

132 &lt;212&gt; TYPE: DNA

133 &lt;213&gt; ORGANISM: Artificial Sequence

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/723,365A

DATE: 07/27/2004

TIME: 11:58:58

Input Set : A:\2073seq.002

Output Set: N:\CRF4\07272004\J723365A.raw

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 136 <223> OTHER INFORMATION: Amplicon for base-specific cleavage  
 138 <400> SEQUENCE: 8  
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 141 cagaagggcg agcaggccac ctccctggcc atccctaggg tcatacgctt ggtaagggtt 180  
 142 ttttagaatct tcaagctctc ccggcactct aagggcctcc agatcctggg ccagaccctc 240  
 143 aaagcttagta tgagagagct aggctgctc atcttttcc tcttcatcg ggtcatccctg 300  
 144 ttttcttagtg cagtgtactt tgccgaggcg ctctttcct 340  
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 147 <211> LENGTH: 23  
 148 <212> TYPE: DNA  
 149 <213> ORGANISM: Artificial Sequence  
 151 <220> FEATURE:  
 152 <223> OTHER INFORMATION: Forward primer for partial cleavage  
 154 <220> FEATURE:  
 155 <221> NAME/KEY: modified\_base  
 156 <222> LOCATION: 1  
 157 <223> OTHER INFORMATION: Biotinylated  
 159 <400> SEQUENCE: 9  
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 162 <210> SEQ ID NO: 10  
 163 <211> LENGTH: 23  
 164 <212> TYPE: DNA  
 165 <213> ORGANISM: Artificial Sequence  
 167 <220> FEATURE:  
 168 <223> OTHER INFORMATION: Reverse primer for partial cleavage  
 170 <400> SEQUENCE: 10  
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 174 <211> LENGTH: 117  
 175 <212> TYPE: DNA  
 176 <213> ORGANISM: Artificial Sequence  
 178 <220> FEATURE:  
 179 <223> OTHER INFORMATION: Amplicon for partial cleavage  
 181 <400> SEQUENCE: 11  
 182 cccagtcacg acgttgtaaa acgtccaggg aggactcacc atggcattt gattgcagag 60  
 183 cagctccgag tccatccaga gcttcctgca gtcacctgtg tgaaattgtt atccgct 117  
 185 <210> SEQ ID NO: 12  
 186 <211> LENGTH: 21  
 187 <212> TYPE: DNA  
 188 <213> ORGANISM: Artificial Sequence  
 190 <220> FEATURE:  
 191 <223> OTHER INFORMATION: Reference sequence  
 193 <220> FEATURE:  
 194 <221> NAME/KEY: misc\_feature  
 195 <222> LOCATION: 11  
 196 <223> OTHER INFORMATION: n = C or A  
 198 <220> FEATURE:

- What is the source of  
genetic  
material?  
- Invalid  
Response

The type of errors shown exist throughout  
the Sequence Listing. Please check subsequent  
sequences for similar errors.

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/723,365A

DATE: 07/27/2004

TIME: 11:58:58

Input Set : A:\2073seq.002

Output Set: N:\CRF4\07272004\J723365A.raw

199 <221> NAME/KEY: misc\_feature  
 200 <222> LOCATION: 1, 2, 3, 8, 9, 10, 12, 13, 14, 19, 20, 21  
 201 <223> OTHER INFORMATION: n = A,T,C or G  
 203 <400> SEQUENCE: 12  
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 206 <210> SEQ ID NO: 13  
 207 <211> LENGTH: 583  
 208 <212> TYPE: DNA  
 209 <213> ORGANISM: Artificial Sequence  
 211 <220> FEATURE:  
 212 <223> OTHER INFORMATION: CETP Amplicon  
 214 <400> SEQUENCE: 13  
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 216 ggaaaactta gtgaatggca aggctgggttgagccagc tctattgccccc 120  
 217 ggctccatc cctgctccat ttcccaggca tagggacttg tagggggctg gaaccccagg 180  
 218 atcaactctg ggctcagagg gccccagcaa taagtactg ttgattactc ctgatccaa 240  
 219 agctgacttc aggcaagctc cttggaggtc gcagccctt cttgctatgc ccagtggcaa 300  
 220 ttagtggcat aatcccactc ctcagtgca ggttccacta agaaccatg atctctacc 360  
 221 tcaaattggac ctcatgttt ctgagtaagc ctcctcage tttctggca ctcactccc 420  
 222 cccacccact gcaatgactt ctteaggct tccctggcat cctcaaatct ccagctggccc 480  
 223 cctcctgtct accttccact tccctctcca cacacaacct gtttaccaga gagctgagca 540  
 224 gagccaccaa cagaacttcc ccccccacgtc gtcgtccca gtc 583  
 226 <210> SEQ ID NO: 14  
 227 <211> LENGTH: 483  
 228 <212> TYPE: DNA  
 229 <213> ORGANISM: Mycobacterium abscessus  
 231 <300> PUBLICATION INFORMATION:  
 232 <308> DATABASE ACCESSION NO: EMBL Accession No. AJ536038  
 233 <309> DATABASE ENTRY DATE: 2003-01-03  
 235 <400> SEQUENCE: 14  
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 237 tctaataccg gataggacca cacacttcat ggtgagtgg gcaaaagcttt tgccgtgtgg 120  
 238 gatgagcccg cggcctatca gtttgtgg ggggtaatgg cccaccaagg cgacgacggg 180  
 239 tagccggct gagagggtga cccggccacac tgggactgag atacggccca gactcctacg 240  
 240 ggaggcagca gtgggaaata ttgcacaatg ggcgcaagcc tgatgcagcg acgcccgtg 300  
 241 agggatgacg gccttcgggt tggaaacactc tttcagtagg gacgaagcga aagtgacgg 360  
 242 acctacagaa gaaggacccgg ccaactacgt gccagcagcc gcgtaataac gtagggtccg 420  
 243 agcgttgcc ggaattactg ggcgtaaaga gctcgttaggt gtttgcgc gttgtcgtg 480  
 244 aaa 483  
 246 <210> SEQ ID NO: 15  
 247 <211> LENGTH: 495  
 248 <212> TYPE: DNA  
 249 <213> ORGANISM: Mycobacterium avium  
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 253 <309> DATABASE ENTRY DATE: 2003-01-03  
 255 <400> SEQUENCE: 15  
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## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/723,365A

DATE: 07/27/2004

TIME: 11:58:58

Input Set : A:\2073seq.002

Output Set: N:\CRF4\07272004\J723365A.raw

258 gatgggcccggcgcctatca gcttgggtggt ggggtgacgg cttaccagg cgacgacggg 180  
 259 tagccggcct gagaggggtgt cggccacac tggacttag atacggcca gactcctacg 240  
 260 ggaggcagca gtgggaata ttgcacaatg ggcgaagcc tggatgcagcg acgcccgtg 300  
 261 ggggatgacg gccttcgggt tgtaaacctc ttccaccatc gacgaaggc cgggtttct 360  
 262 cggattgacg gtaggtggag aagaagcacc gccaactac gtgccagcag ccgcggtaat 420  
 263 acgttagggtg cgagcgttgttccggattac tggcgtaaa gagctcgtag gtgggttgc 480  
 264 gcgttgcgtcg tgaaa 495  
 266 <210> SEQ ID NO: 16  
 267 <211> LENGTH: 495  
 268 <212> TYPE: DNA  
 269 <213> ORGANISM: Mycobacterium celatum  
 271 <300> PUBLICATION INFORMATION:  
 272 <308> DATABASE ACCESSION NO: EMBL Accession No. AJ536040  
 273 <309> DATABASE ENTRY DATE: 2003-01-03  
 275 <400> SEQUENCE: 16  
 276 acgggtgagt aacacgtggg tgatctgccc tgcacttcgg gataagcttg ggaaactggg 60  
 277 tctaataccg gataggacca tggatgcat gtcttgggt gaaagctt tgccgtgtgg 120  
 278 gatgggcccggcgcctatca gcttgggtggt ggggtgatgg cttaccagg cgacgacggg 180  
 279 tagccggcct gagaggggtgt cggccacac tggacttag atacggcca gactcctacg 240  
 280 ggaggcagca gtgggaata ttgcacaatg ggcgaagcc tggatgcagcg acgcccgtg 300  
 281 ggggatgacg gccttcgggt tgtaaacctc ttccaccatc gacgaagctg cgggtttct 360  
 282 gtaggtggag aagaagcacc gccaactac gtgccagcag ccgcggtaat 420  
 283 acgttagggtg cgagcgttgttccggattac tggcgtaaa gagctcgtag gtgggttgc 480  
 284 gcgttgcgtcg tgaaa 495  
 286 <210> SEQ ID NO: 17  
 287 <211> LENGTH: 483  
 288 <212> TYPE: DNA  
 289 <213> ORGANISM: Mycobacterium fortuitum  
 291 <300> PUBLICATION INFORMATION:  
 292 <308> DATABASE ACCESSION NO: EMBL Accession No. AJ536039  
 293 <309> DATABASE ENTRY DATE: 2003-01-03  
 295 <400> SEQUENCE: 17  
 296 acgggtgagt aacacgtggg tgatctgccc tgcactttgg gataagcctg ggaaactggg 60  
 297 tctaataccg aatatgacca cgcgttcat ggtgtgtgg gaaagctt tgccgtgtgg 120  
 298 gatgggcccggcgcctatca gcttgggtggt gggtaatgg cttaccagg cgacgacggg 180  
 299 tagccggcct gagaggggtgt cggccacac tggacttag atacggcca gactcctacg 240  
 300 ggaggcagca gtgggaata ttgcacaatg ggcgaagcc tggatgcagcg acgcccgtg 300  
 301 agggatgacg gccttcgggt tgtaaacctc ttcaatagg gacgaagcgc aagtgacggt 360  
 302 acctatagaa gaaggacgg ccaactacgt gccagcagcc gcgtaatac gtagggtccg 420  
 303 agcgttgcgtcg ggaattactg ggcgtaaaga gtcgttaggt gtttgcgtc gttgtcgtg 480  
 304 aaa 483  
 306 <210> SEQ ID NO: 18  
 307 <211> LENGTH: 495  
 308 <212> TYPE: DNA  
 309 <213> ORGANISM: Mycobacterium gordonaiae  
 311 <300> PUBLICATION INFORMATION:  
 312 <308> DATABASE ACCESSION NO: EMBL Accession No. AJ536042  
 313 <309> DATABASE ENTRY DATE: 2003-01-03  
 315 <400> SEQUENCE: 18

RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/10/723,365A

DATE: 07/27/2004  
TIME: 11:58:59

Input Set : A:\2073seq.002  
Output Set: N:\CRF4\07272004\J723365A.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:2; Xaa Pos. 5  
Seq#:3; Xaa Pos. 5  
Seq#:4; Xaa Pos. 5  
Seq#:5; Xaa Pos. 2,5  
Seq#:12; N Pos. 1,2,3,8,9,10,11,12,13,14,19,20,21  
Seq#:32; N Pos. 821  
Seq#:45; N Pos. 123  
Seq#:46; N Pos. 174,179,317  
Seq#:47; N Pos. 285,286  
Seq#:48; N Pos. 131  
Seq#:49; N Pos. 47,50,51,52,111,135,185,198,253,359  
Seq#:50; N Pos. 131  
Seq#:51; N Pos. 228,230,235,236,240,243,245  
Seq#:52; N Pos. 84,265,269  
Seq#:53; N Pos. 136,385  
Seq#:54; N Pos. 76  
Seq#:55; N Pos. 157  
Seq#:56; N Pos. 103  
Seq#:57; N Pos. 31  
Seq#:58; N Pos. 211  
Seq#:59; N Pos. 77  
Seq#:60; N Pos. 131,239,254,283  
Seq#:61; N Pos. 100  
Seq#:62; N Pos. 228,341  
Seq#:63; N Pos. 300,696,741,771  
Seq#:64; N Pos. 378  
Seq#:65; N Pos. 137  
Seq#:66; N Pos. 249  
Seq#:67; N Pos. 80,206,295,315,317,318,373,400,479  
Seq#:68; N Pos. 48,154  
Seq#:69; N Pos. 205,277,304  
Seq#:70; N Pos. 117  
Seq#:71; N Pos. 37,329,350  
Seq#:72; N Pos. 653  
Seq#:73; N Pos. 257  
Seq#:74; N Pos. 98,114  
Seq#:75; N Pos. 21,61,83,84,85,86  
Seq#:78; N Pos. 183,256,284,327  
Seq#:79; N Pos. 279  
Seq#:80; N Pos. 44  
Seq#:81; N Pos. 346  
Seq#:82; N Pos. 291  
Seq#:83; N Pos. 260  
Seq#:84; N Pos. 257

## VERIFICATION SUMMARY

PATENT APPLICATION: US/10/723,365A

DATE: 07/27/2004

TIME: 11:58:59

Input Set : A:\2073seq.002

Output Set: N:\CRF4\07272004\J723365A.raw

L:50 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0  
L:68 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0  
L:86 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0  
L:104 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0  
L:204 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:0  
L:605 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32 after pos.:780  
L:790 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:45 after pos.:120  
L:818 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:46 after pos.:120  
L:821 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:46 after pos.:300  
L:843 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47 after pos.:240  
L:864 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:48 after pos.:120  
L:900 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:49 after pos.:0  
L:901 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:49 after pos.:60  
L:902 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:49 after pos.:120  
L:903 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:49 after pos.:180  
L:904 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:49 after pos.:240  
L:905 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:49 after pos.:300  
L:926 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:50 after pos.:120  
L:950 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:51 after pos.:180  
L:951 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:51 after pos.:240  
L:975 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:52 after pos.:60  
L:978 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:52 after pos.:240  
L:1004 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:53 after pos.:120  
L:1008 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:53 after pos.:360  
L:1026 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:54 after pos.:60  
L:1050 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:55 after pos.:120  
L:1071 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:56 after pos.:60  
L:1094 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:57 after pos.:0  
L:1119 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:58 after pos.:180  
L:1139 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:59 after pos.:60  
L:1177 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:60 after pos.:120  
L:1178 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:60 after pos.:180  
L:1179 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:60 after pos.:240  
L:1198 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:61 after pos.:60  
L:1227 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:62 after pos.:180  
L:1229 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:62 after pos.:300  
L:1261 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:63 after pos.:240  
L:1268 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:63 after pos.:660  
L:1269 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:63 after pos.:720  
L:1292 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:64 after pos.:360  
L:1312 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:65 after pos.:120  
L:1336 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:66 after pos.:240  
L:1359 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:67 after pos.:60  
L:1361 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:67 after pos.:180  
L:1362 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:67 after pos.:240  
L:1363 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:67 after pos.:300  
L:1364 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:67 after pos.:360  
L:1365 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:67 after pos.:420

VERIFICATION SUMMARY  
PATENT APPLICATION: US/10/723,365A

DATE: 07/27/2004  
TIME: 11:58:59

Input Set : A:\2073seq.002  
Output Set: N:\CRF4\07272004\J723365A.raw

L:1388 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:68 after pos.:0  
L:1390 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:68 after pos.:120  
L:1423 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:69 after pos.:180  
L:1424 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:69 after pos.:240  
L:1425 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:69 after pos.:300  
L:1443 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:70 after pos.:60  
L:1474 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:71 after pos.:0  
L:1479 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:71 after pos.:300  
L:1506 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:72 after pos.:600  
L:1527 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:73 after pos.:240  
L:1556 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:74 after pos.:60  
L:1587 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:75 after pos.:0  
L:1588 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:75 after pos.:60  
L:1645 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:78 after pos.:180  
L:1646 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:78 after pos.:240  
L:1647 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:78 after pos.:300  
L:1667 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:79 after pos.:240  
L:1685 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:80 after pos.:0  
L:1712 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:81 after pos.:300  
L:1723 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:1727 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:82  
L:1732 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:82 after pos.:240  
L:1754 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:83 after pos.:240  
L:1776 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:84 after pos.:240

Use of n and / or Xaa has been detected in the Sequence Listing. Review the Sequence Listing to ensure a corresponding explanation is present in the <220> to <223> fields of each sequence using n or Xaa.